



IN THE UNITED STATES OF AMERICA

PATENT AND TRADEMARK OFFICE

APPLICANTS: PEIYI ZHAO  
TAREK DARWISH  
MAGDY BAYOUMI  
TITLE: SINGLE-TRANSISTER-CLOCKED FLIP-FLOP  
DOCKET NO.: 17220-6



MAIL STOP: PATENT APPLICATION  
COMMISSIONER FOR PATENTS  
P. O. BOX 1450  
ALEXANDRIA, VA 22313-1450

**NEW APPLICATION TRANSMITTAL**

Transmitted herewith for filing is the patent application of

Inventor(s): Peiyi Zhao  
Tarek Darwish  
Magdy Bayoumi

For (title): Single-Transister-Clocked Flip-Flop

1. Type of Application

This new application is for a(n)

(check one applicable item below)

- ☒ [X] Original (nonprovisional)
- ☐ [ ] Design
- ☐ [ ] Plant
- ☐ [ ] Divisional
- ☐ [ ] Continuation
- ☐ [ ] Continuation-in-part (C-I-P).

2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)

- ☐ [ ] the new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed That Are Required for Filing Date under 37 C.F.R. 1.53(b) (Regular) or 37 C.F.R. 1.153 (Design) Application

- 14 Pages of specification
- 5 Pages of claims
- 1 Pages of Abstract
- 4 Sheets of Drawing

☐ formal

☒ informal

☐ The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).

4. Additional papers enclosed

☐ Preliminary Amendment

☐ Information Disclosure Statement (37 C.F.R. 1.98)

☐ Form PTO-1449 (PTO/SB/08A and 08B)

☐ Citations

☐ Declaration of Biological Deposit

☐ Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.

☐ Authorization of Attorney(s) to Accept and Follow Instructions from Representative

☐ Special Comments

☐ Other (Substitute for Form PTO/SB/08A)

5. Declaration or oath

☐ Enclosed

Executed by

☐ Inventor(s).

☐ Legal representative of inventor(s).  
37 CFR 1.42 or 1.43.

☐ Joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.

☐ This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached, See item 13 below for fee.

☐ Not Enclosed.

☐ Application is made by a person authorized under 37 C.F.R. 1.41(c) on behalf of all the above named inventor(s).

☐ Showing that the filing is authorized. (not required unless called into question. 37 CFR 1.41(d))

☒ Will follow.

## 6. Inventorship Statement

The inventorship for all the claims in this application are:

☒ The same.

or

☐ Not the same. An explanation, including the ownership of the various claims at the time the last claim invention was made,

☐ is submitted.

☐ will be submitted.

## 7. Language

☒ English

☐ Non-English

☐ The attached translation is a verified translation.  
37 C.F.R. 1.52 (d).

8. Assignment

☒ An assignment of the invention

☐ is attached.

☐ A separate

☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT)  
ACCOMPANYING NEW PATENT APPLICATION" OR

☐ FORM PTO 1595 is also attached.

☒ will follow.

9. Certified Copy

Certified copy(ies) of application(s)

County	Appln. no.	Filed
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County	Appln. no.	Filed
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from which priority is claimed

☐ is (are) attached.

☐ will follow.

10. Fee Calculation (37 C.F.R. 1.16)

A. ☒ Regular application

CLAIMS AS FILED

	Number Filed		Number Extra	Rate	Basic Fee 37 CFR 1.16(a)
Total					\$750.00
Claims					
(37 CFR 1.16(c))	15	- 20 =	0	x \$18.00	\$0
Independent					
Claims					
(37 CFR 1.16(c))	3	- 3 =	0	x \$84.00	\$0
Multiple dependent					
claim(s), if any					
(37 CFR 1.16(d))	0			+ \$260.00	\$0

☐ Amendment cancelling extra claims enclosed.

☐ Amendment deleting multiple-dependencies enclosed.

☐ Fee for extra claims is not being paid at this time.

**Filing Fee Calculation \$ 750.00**

B. ☐ Design application  
(\$310.00--37 CFR 1.16(f))

**Filing fee Calculation \$ \_\_\_\_\_**

C. ☐ Plant application  
(\$480.00--37 CFR 1.16(g))

**Filing fee calculation \$ \_\_\_\_\_**

11. Small Entity Statement(s)

☒ This is a filing by a small entity under 37 CFR 1.9 and 1.27.

**(complete the following, if applicable)**

☐ Status as a small entity was claimed in prior application \_\_\_\_\_/\_\_\_\_\_, filed on \_\_\_\_\_, from which benefit is being claimed for this application under:

35 U.S.C.      ☐ 119(e),  
                 ☐ 120,  
                 ☐ 121,  
                 ☐ 365(c),

and which status as a small entity is still proper and desired.

☐ A copy of the verified statement in the prior application is included.

**Filing Fee Calculation (50% of A, B or C above) \$375.00.**

12. Request for International-Type Search (37 CFR 1.104(d) )

(complete, if applicable)

☐ Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

13. Fee Payment Being Made at This Time

☐ Not Enclosed

☐ No filing fee is to be paid at this time.

☒ Enclosed

☒ Basic Filing Fee \$375.00

- ☐ Recording assignment (\$40.00; 37 CFR 1.21(h))  
(See attached "COVER SHEET FOR ASSIGNMENT  
ACCOMPANYING NEW APPLICATION".) \$ \_\_\_\_\_
- ☐ Petition fee for filing by other than all the  
inventors or persons on behalf of the inventor  
where inventor refused to sign or cannot be  
reached. (\$130.00; 37 CFR 1.47 and 1.17(h)) \$ \_\_\_\_\_
- ☐ For processing an application with a  
specification in a non-English language.  
(\$130.00; 37 CFR 1.52(d) and 1.17(k)) \$ \_\_\_\_\_
- ☐ Processing and retention fee  
\$130.00; 37 CFR 1.53(d) and 1.21(1)) \$ \_\_\_\_\_
- ☐ Fee for international-type search report  
(\$40.00; 37 CFR 1.21(e)) \$ \_\_\_\_\_
- Total fees enclosed \$375.00**

14. Method of Payment of Fees

- ☒ Check in the amount of \$375.00
- ☐ Charge Account No. \_\_\_\_\_ in the amount of  
\$ \_\_\_\_\_. A duplicate of this transmittal is  
attached.

15. Authorization to Charge Additional Fees

- ☒ The Commissioner is hereby authorized to charge the  
following additional fees by this paper and during the  
entire pendency of this application to Account No. 11-  
0245:
- ☒ 37 CFR 1.16(a), (f) or (g) (filing fees)
- ☒ 37 CFR 1.16(b), (c) and (d) (presentation of extra  
claims)
- ☒ 37 CFR 1.16(e) (surcharge for filing the basic  
filing fee and/or declaration on a date later than  
the filing date of the application)
- ☒ 37 CFR 1.17 (application processing fees)

☐ 37 CFR 1.18 (issue fee at or before mailing of  
Notice of Allowance, pursuant to 37 CFR 1.311(b) )

16. Instructions as to Overpayment

☒ Credit Account No. 11-0245  
☐ Refund



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PTO Reg. No.: 37,213  
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Fax No. (225) 388-9133

☐ Incorporation by reference of added pages (check the  
following item if the application in this transmittal  
claims the benefit of prior U.S. application(s)  
(including an international application entering the U.S.  
stage as a continuation, divisional or C-I-P application)  
and complete and attach the ADDED PAGES FOR NEW  
APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S.  
APPLICATION(S) CLAIMED)

☐ Plus Added Pages for New Application Transmittal  
Where Benefit of Prior U.S. Application(s) Claimed

Number of pages added \_\_\_\_\_

☐ Plus Added Pages for Papers Referred to in Item 4  
Above

Number of pages added \_\_\_\_\_



[ ] Plus ``Cover Sheet for Assignment Accompanying New Application''

Number of pages added\_\_\_\_

[ ] Plus Assignment Document

Number of pages added\_\_\_\_

**Statement Where No Further Pages Added**

[X] This transmittal ends with this page.

**IN THE UNITED STATES OF AMERICA  
PATENT AND TRADEMARK OFFICE**

**Applicants:** PEIYI ZHAO  
TAREK DARWISH  
MADGY BAYOUMI

**Title:** SINGLE-TRANSISTER-CLOCKED FLIP-FLOP

**Docket No.:** 17220-6

**EXPRESS MAIL CERTIFICATE**

"Express Mail" Label Number: EV 342091734 US


Date of Deposit: July 28, 2003

I hereby certify that the following attached paper or fee:

- Patent Application (including 14 pages of Specifications, 5 pages of Claims, 1 page of Abstract, and 4 sheets of Drawings)
- Express Mail Certificate
- New Application Transmittal (9 pages)
- Check for \$375.00
- Request for Nonpublication
- Deposit Account Authorization
- Postage paid and self-addressed return postcard

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop: Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

Date: July 28, 2003

  
\_\_\_\_\_  
Russel O. Primeaux, PTO Reg. No.: 37,213  
William R. Coenen, III, PTO Reg. No.: 48,239  
KEAN, MILLER, HAWTHORNE, D'ARMOND,  
MCCOWAN & JARMAN, L.L.P.  
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)</b>		First Named Inventor	Peiyi Zhao
		Title	Single-Transister-Clocked Flip-Flop
		Attorney Docket Number	17220-6

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

July 28, 2003  
Date

  
Signature

225-382-3454  
Telephone number

Russel O. Primeaux, #37,213  
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.213(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: PEIYI ZHAO  
TAREK DARWISH  
MAGDY BAYOUMI  
Title: SINGLE-TRANSISTER-CLOCKED FLIP-FLOP  
Docket No.: 17220-6

COMMISSIONER FOR PATENTS  
MAIL STOP: PATENT APPLICATION  
P. O. BOX 1450  
ALEXANDRIA, VA 22313-1450

DEPOSIT ACCOUNT AUTHORIZATION  
AND REQUEST FOR AUTOMATIC EXTENSIONS OF TIME

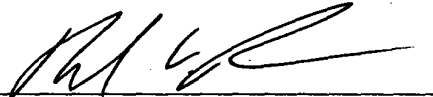
Dear Sir:

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17, and 1.492 that may be required during the entire pendency of this application, and to credit any amounts paid in excess of those actually due, to Deposit Account No. 11-0245.

It is applicant's intention generally to pay all fees required under 37 C.F.R. §§ 1.16, 1.17, and 1.492 by timely-submitted checks. However, in those instances where no check is timely submitted, or where a check is submitted for an amount less than the amount required, the Commissioner is authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17, and 1.492 that may therefore be required during the entire pendency of this application to Deposit Account No. 11-0245.

Pursuant to 37 C.F.R. § 1.136(a)(3), please treat this paper as a request to treat any concurrent or future replies filed in this application, that require a petition for an extension of time under 37 C.F.R. § 1.13(a) for timely submission, as incorporating a petition for an extension of time for the appropriate length of time. Where the necessary fees for an extension of time are not paid by contemporaneously-submitted check, please check Deposit Account No. 11-0245 as discussed above.

Respectfully submitted,



Russel O. Primeaux  
Registration No. 37,213  
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McCOWAN & JARMAN, L.L.P.  
P. O. Box 3513  
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Baton Rouge, Louisiana 70821-3513  
Date: July 28, 2003